

**Surveyors Package**

**DHEC-OCRM**

**Surfside Beach to Springmaid**

**April 15, 2000**

## **Introduction**

The 1990 Beachfront Management Act defines the method by which beachfront jurisdiction is established by the South Carolina Department of Health and Environmental Control, Office of Ocean and Coastal Resource Management (OCRM). The Beachfront Management Act requires that all shorelines be classified as inlet zones or standard zones. Inlet zones are further subdivided into stabilized inlet zones or unstabilized inlet zones.

In unstabilized inlet zones, the baseline is located at the most landward position of the shoreline in the past 40 years, unless the best available scientific and historical data of the inlet and adjacent beaches indicate that the shoreline is unlikely to return to its former position. In standard zones and stabilized inlet zones, the baseline is located at the crest of the primary oceanfront sand dune. If there is no primary dune, the baseline is established based on the volume of sand on the active beach profile at each survey monument.

The position of the setback line is determined by the local long-term erosion rate. In erosional areas, the setback line is located landward of the baseline a distance equal to 40 times the annual erosion rate. In stable or accretional areas, the setback line is located 20 feet landward of the baseline.

All original baselines and setback lines became final on July 3<sup>rd</sup>, 1991. The Beachfront Management Act calls for all lines to be revised between July 1998 and July 2000, and then once every eight to 10 years after each preceding revision. Once a line is adopted as final, it will not change unless OCRM moves it as the result of a successful legal appeal of the line position or following a successful beach renourishment project. The date on which the new lines for this particular area were adopted as final is listed on the front cover.

Section 48-39-330 of the Beachfront Management Act reads as follows:

Thirty days after the initial adoption by the Department of setback lines, a contract of sale or transfer of real property located in whole or in part seaward of the setback line or the jurisdictional line must contain a disclosure statement that the property is or may be affected by the setback line, baseline, and the seaward corners of all habitable structures referenced to the South Carolina State Plane Coordinate System (N.A.D.-1983) and include the local erosion rate most recently made available by the Department for that particular standard zone or inlet zone as applicable. Language reasonably calculated to call attention to the existence of baselines, setback lines, jurisdictional lines, and the seaward corners of all habitable structures and the erosion rate complies with this section. The provisions of this section are regulatory in nature and do not affect the legality of an instrument violating the provisions.

As a result, surveyors have been called upon to transfer the OCRM baseline and setback lines to individual plats and to locate these lines in the field. OCRM has undertaken several steps to facilitate this task, as described below.

## **Orthophotographs**

Orthophotographs, which are aerial photographs with the distortion removed at ground level, have been produced for all developed beaches in the state. These maps are to national map accuracy standards, and are depicted in the South Carolina State Plane Coordinate System (NAD 83). The maps are based on July 1993 photography, are at a scale of 1"=100', and have the beach lines drawn on them. Copies of these maps are available for review in the appropriate OCRM office and municipal or county office. Copies are available for sale at Duncan-Parnell, Inc., 3150 W. Montague Ave., North Charleston, SC, 29419, phone 843-747-6033.

## **Digitized Lines**

OCRM has digitized the location of the baseline and setback line for all islands where such lines have been established. These digital line coordinates are listed as northings and eastings in the South Carolina State Plane Coordinate System (NAD 83), in units of international feet. They are provided in order to avoid having different surveyors obtain slightly different results when digitizing or scaling off the orthophotographs. Appendix 1 gives the line coordinates for this area.

## **Beach Survey Monuments**

In 1987, OCRM installed a network of beach survey monuments along most of South Carolina's shoreline. Over time, additional monuments have been added to the network to replace ones that have been destroyed. In general, the replacement monument is along the same shore-perpendicular line as the original monument but farther landward. Replacement monuments are stamped with the letter "B" (or the letter "C" for a third-generation monument). For example, monument 4220 was replaced with 4220B. These monuments are located horizontally in the South Carolina State Plane Coordinate System (NAD 83), and are vertically referenced to 1929 NGVD. Description sheets for all monuments in this are given in Appendix 2. In some cases, the monument's coordinates are given in meters. To convert to international feet, divide by 0.3048.

## **Local Erosion Rates**

OCRM has conducted studies of the long-term erosion rates at all survey monument locations. These rates were used to establish the location of the setback line, and must also be given on individual plats. In erosional areas the exact rate was determined. In stable or accretional areas no specific number was determined, and the shoreline is officially classified as "stable to accretional" or S/A. Local erosion rates for the area covered by this report are given in Appendix 3.

## **Plat Review Requirements**

In order to receive a permit from OCRM for many activities seaward of the setback line, the applicant must submit a plat in state plane coordinates with specific information shown on it. The following is a list of the required information:

1. Monuments used to reference the survey.
2. Line coordinates used to establish the baseline and setback line.
3. Coordinates of the property corners.
4. Coordinates of the corners of any habitable structures on the property.
5. Distance between the seaward structure corners and the baseline and setback line.
6. Footprint of all structures on the property.
7. Location of the crest and trough of the primary oceanfront sand dune.
8. Local erosion rate.

## **Appendix 1**

### **Line Coordinates**

This appendix contains a listing of OCRM baseline and setback line coordinates, given as northings and eastings in international feet referenced to the South Carolina State Plane Coordinate System (NAD 83). Coordinates are listed as one continuous line that begins at one end of the island or beach and extends to the other. There are separate listings for the baseline and the setback line.

SURFSIDE TO SPRINGMAID BASELINE

DHEC-OCRM BASELINE COORDINATES  
SURFSIDE BEACH TO SPRINGMAID  
VALID AS OF APRIL 15, 2000  
STATE-PLANE COORDINATE SYSTEM, NAD 1983  
INTERNATIONAL FEET

NORTHING	EASTING
646440.62	2614158.41
646520.55	2614218.50
646600.48	2614278.59
646680.42	2614338.68
646760.35	2614398.77
646840.28	2614458.86
646920.21	2614518.95
647000.15	2614579.04
647080.08	2614639.13
647160.01	2614699.22
647239.94	2614759.31
647319.87	2614819.40
647399.81	2614879.49
647479.74	2614939.58
647559.67	2614999.67
647639.60	2615059.77
647719.53	2615119.86
647799.47	2615179.95
647879.40	2615240.04
647959.33	2615300.13
647991.54	2615324.34
648071.53	2615384.35
648151.52	2615444.37
648231.51	2615504.38
648311.50	2615564.39
648391.49	2615624.41
648471.48	2615684.42
648551.47	2615744.43
648631.46	2615804.45
648711.45	2615864.46
648791.44	2615924.48
648871.43	2615984.49
648951.42	2616044.50
649031.41	2616104.52
649111.40	2616164.53
649191.39	2616224.54
649271.38	2616284.56
649351.37	2616344.57
649383.41	2616368.61
649461.93	2616430.54
649540.44	2616492.47
649618.96	2616554.40
649697.48	2616616.32
649775.99	2616678.25
649854.51	2616740.18
649933.03	2616802.11
650011.54	2616864.04
650090.06	2616925.97
650168.58	2616987.90
650247.09	2617049.82

SURFSIDE TO SPRINGMAID BASELINE

650325.61	2617111.75
650404.13	2617173.68
650482.64	2617235.61
650561.16	2617297.54
650639.67	2617359.47
650718.19	2617421.40
650796.71	2617483.32
650875.22	2617545.25
650953.74	2617607.18
651032.26	2617669.11
651110.77	2617731.04
651189.29	2617792.97
651267.81	2617854.90
651346.32	2617916.82
651366.54	2617932.77
651446.78	2617992.45
651527.02	2618052.12
651607.27	2618111.80
651687.51	2618171.47
651767.75	2618231.15
651847.99	2618290.83
651928.23	2618350.50
652008.47	2618410.18
652088.72	2618469.86
652168.96	2618529.53
652249.20	2618589.21
652329.44	2618648.88
652409.68	2618708.56
652489.93	2618768.24
652570.17	2618827.91
652650.41	2618887.59
652730.65	2618947.26
652810.89	2619006.94
652891.14	2619066.62
652971.38	2619126.29
653051.62	2619185.97
653117.17	2619234.72
653196.55	2619295.53
653275.94	2619356.35
653355.32	2619417.16
653434.70	2619477.98
653514.09	2619538.79
653593.47	2619599.60
653672.85	2619660.42
653752.23	2619721.23
653831.62	2619782.04
653911.00	2619842.86
653990.38	2619903.67
654069.77	2619964.49
654149.15	2620025.30
654228.53	2620086.11
654307.92	2620146.93
654387.30	2620207.74
654466.68	2620268.56
654546.07	2620329.37
654625.45	2620390.18
654704.83	2620451.00

SURFSIDE TO SPRINGMAID BASELINE

654784.22	2620511.81
654863.60	2620572.62
654869.91	2620577.46
654951.03	2620635.94
655032.15	2620694.41
655113.27	2620752.89
655194.39	2620811.37
655275.51	2620869.84
655356.63	2620928.32
655437.75	2620986.80
655518.87	2621045.28
655599.99	2621103.75
655681.11	2621162.23
655762.23	2621220.71
655843.35	2621279.18
655924.47	2621337.66
656005.59	2621396.14
656086.71	2621454.61
656167.83	2621513.09
656248.95	2621571.57
656330.07	2621630.04
656411.19	2621688.52
656478.15	2621736.79
656558.55	2621796.25
656638.96	2621855.71
656719.36	2621915.17
656799.76	2621974.63
656880.16	2622034.09
656960.57	2622093.54
657040.97	2622153.00
657121.37	2622212.46
657201.78	2622271.92
657282.18	2622331.38
657362.58	2622390.84
657442.98	2622450.30
657523.39	2622509.76
657603.79	2622569.22
657684.19	2622628.68
657764.60	2622688.14
657845.00	2622747.59
657925.40	2622807.05
658005.80	2622866.51
658086.21	2622925.97
658166.61	2622985.43
658175.83	2622992.25
658255.37	2623052.86
658334.91	2623113.47
658414.45	2623174.07
658493.99	2623234.68
658573.53	2623295.29
658653.07	2623355.90
658732.62	2623416.50
658812.16	2623477.11
658891.70	2623537.72
658971.24	2623598.33
659050.78	2623658.93
659130.32	2623719.54

SURFSIDE TO SPRINGMAID BASELINE

659209.86	2623780.15
659289.40	2623840.76
659368.94	2623901.36
659448.48	2623961.97
659528.02	2624022.58
659607.56	2624083.19
659687.10	2624143.79
659766.64	2624204.40
659846.19	2624265.01
659925.73	2624325.62
660005.27	2624386.22
660068.73	2624434.58
660090.95	2624451.25
660108.42	2624463.95
660129.06	2624479.83
660144.14	2624491.73
660158.43	2624502.85
660186.22	2624525.08
660206.86	2624542.54
660236.23	2624564.77
660261.64	2624582.24
660277.51	2624596.53
660289.42	2624605.26
660313.24	2624620.34
660336.26	2624639.40
660363.25	2624661.62
660390.24	2624685.44
660419.62	2624703.70
660450.58	2624724.34
660484.72	2624753.71
660510.12	2624773.56
660545.84	2624804.52
660578.39	2624831.51
660602.21	2624847.39
660628.41	2624868.03
660656.99	2624897.40
660690.33	2624927.57
660712.56	2624950.59
660753.04	2624983.94
660779.24	2625006.16
660803.85	2625026.80
660841.96	2625053.80
660864.19	2625069.67
660888.00	2625087.93
660913.41	2625111.75
660936.43	2625127.63
660988.82	2625162.56
661018.99	2625187.96
661047.57	2625212.57
661148.39	2625298.31
661174.59	2625331.65
661195.23	2625361.82
661234.92	2625388.81
661266.68	2625418.98
661296.85	2625438.03
661328.60	2625464.23
661360.36	2625492.81

SURFSIDE TO SPRINGMAID BASELINE

661389.73	2625520.59
661419.10	2625545.20
661442.92	2625566.64
661465.15	2625583.31
661504.05	2625611.89
661532.63	2625634.91
661560.41	2625657.14
661590.58	2625684.13
661618.36	2625703.18
661643.77	2625724.62
661669.17	2625746.05
661698.55	2625769.07
661721.57	2625788.92
661750.94	2625809.56
661775.55	2625828.62
661802.54	2625850.05
661825.56	2625868.31
661867.64	2625901.65
661889.87	2625916.74
661916.07	2625936.58
661943.06	2625957.22
661974.02	2625981.83
662001.80	2626004.85
662028.00	2626024.70
662056.58	2626046.93
662075.63	2626062.81
662097.86	2626077.89
662124.06	2626101.71
662146.29	2626119.97
662183.60	2626147.75
662205.04	2626165.22
662226.47	2626183.48
662258.23	2626202.53
662286.80	2626227.14
662312.21	2626250.16
662343.96	2626273.98
662366.19	2626292.24
662391.60	2626309.70
662414.62	2626331.93
662444.79	2626353.36
662473.36	2626377.18
662502.74	2626400.20
662524.97	2626419.26
662547.19	2626437.52
662563.87	2626451.01
662588.48	2626471.65
662633.73	2626504.99
662655.16	2626522.46
662697.24	2626553.42
662720.26	2626573.27
662744.43	2626595.63
662759.27	2626606.76
662780.79	2626623.83
662794.88	2626634.96
662808.24	2626645.34
662825.30	2626657.96
662837.18	2626667.60

SURFSIDE TO SPRINGMAID BASELINE

662857.95	2626679.47
662874.28	2626695.06
662896.53	2626712.12
662914.34	2626724.74
662931.41	2626739.58
662952.93	2626754.42
662975.19	2626774.45
662992.25	2626787.80
663011.54	2626802.64
663027.12	2626816.00
663042.71	2626828.61
663060.51	2626843.45
663073.13	2626854.58
663087.22	2626864.97
663105.77	2626880.55
663128.78	2626899.84
663152.52	2626916.91
663174.78	2626935.46
663197.78	2626948.82
663213.36	2626962.91
663232.65	2626977.75
663250.46	2626994.08
663265.30	2627008.92
663284.59	2627033.40
663317.98	2627060.86
663344.69	2627074.95
663361.76	2627096.47
663383.28	2627115.76
663406.28	2627135.05
663436.70	2627162.51
663470.09	2627196.64
663499.03	2627215.93
663538.35	2627253.03
663555.42	2627270.09
663576.93	2627286.42
663603.65	2627307.94
663624.42	2627327.23
663652.62	2627350.97
663680.07	2627372.49
663703.07	2627393.26
663723.85	2627413.30
663752.79	2627434.82
663775.79	2627451.88
663792.85	2627471.91
663817.34	2627494.17
663842.57	2627511.24
663863.34	2627530.53
663884.12	2627547.60
663907.86	2627566.15
663933.09	2627586.18
663959.06	2627608.44
663982.06	2627629.96
664005.06	2627644.06
664030.29	2627667.06
664049.58	2627680.41
664068.87	2627698.22
664085.19	2627716.03

SURFSIDE TO SPRINGMAID BASELINE

664103.00	2627735.32
664124.52	2627754.61
664148.26	2627779.84
664185.36	2627808.78
664212.07	2627832.52
664239.53	2627863.68
664270.69	2627886.68
664310.02	2627924.53
664347.86	2627954.95
664374.57	2627977.95
664405.73	2628005.40
664436.15	2628033.60
664457.67	2628052.89
664489.58	2628080.34
664511.84	2628101.12
664534.10	2628115.96
664556.36	2628134.51
664580.10	2628155.28
664605.33	2628174.57
664626.10	2628194.61
664655.04	2628213.90
664674.33	2628233.93
664694.36	2628251.74
664724.79	2628280.68
664746.30	2628306.65
664768.56	2628341.52
664799.73	2628372.68
664828.66	2628394.94
664851.67	2628412.75
664879.12	2628435.01
664905.09	2628452.08
664931.80	2628471.37
664959.25	2628491.40
664985.96	2628504.76
665015.64	2628522.57
665039.39	2628542.60
665071.29	2628563.37
665099.49	2628582.67
665127.68	2628611.60
665159.59	2628641.28
665187.04	2628669.48
665238.98	2628717.71
665256.05	2628734.03
665278.31	2628757.03
665305.76	2628787.45
665322.83	2628805.26
665339.15	2628820.84
665362.15	2628849.04
665387.38	2628870.56
665422.99	2628903.20
665443.77	2628923.98
665471.22	2628948.47
665494.22	2628975.18
665520.94	2628998.92
665549.87	2629027.86
665577.33	2629050.86
665604.04	2629076.09

SURFSIDE TO SPRINGMAID BASELINE

665624.81	2629098.35
665652.27	2629122.83
665680.46	2629149.54
665701.98	2629170.32
665717.56	2629189.61
665738.34	2629208.16
665760.60	2629228.19
665782.11	2629248.97
665809.57	2629274.94
665834.05	2629297.20
665864.47	2629320.94
665885.99	2629342.46
665913.45	2629369.91
665943.87	2629403.30
665971.32	2629434.47
665998.77	2629462.66
666019.55	2629482.69
666043.29	2629505.70
666075.20	2629539.83
666096.72	2629559.12
666122.69	2629583.60
666144.94	2629604.38
666165.72	2629625.16
666183.53	2629640.74
666202.82	2629662.25
666218.40	2629681.55
666242.89	2629704.55
666267.37	2629732.00
666288.15	2629755.74
666305.96	2629772.07
666328.22	2629796.55
666355.67	2629825.49
666378.67	2629847.01
666396.48	2629866.30
666420.22	2629886.33
666436.54	2629907.85
666457.32	2629929.37
666475.87	2629949.40
666495.16	2629967.95
666512.97	2629987.99
666530.78	2630009.50
666547.10	2630031.76
666566.39	2630051.05
666596.07	2630069.60
666645.04	2630116.35
666664.33	2630146.03
666688.08	2630173.48
666707.37	2630192.77
666728.89	2630216.52
666808.28	2630276.62
666841.67	2630295.17
666873.57	2630314.46
666892.87	2630330.78
666912.90	2630354.53
666943.32	2630381.98
666973.00	2630407.95
666994.52	2630433.92

SURFSIDE TO SPRINGMAID BASELINE

667014.55	2630456.18
667041.26	2630481.41
667070.94	2630510.34
667102.11	2630537.80
667121.40	2630554.86
667140.69	2630578.61
667168.85	2630607.58
667215.15	2630653.03
667237.44	2630673.60
667277.74	2630711.33
667303.46	2630735.34
667332.61	2630765.35
667354.05	2630789.35
667384.06	2630820.22
667415.78	2630846.80
667443.22	2630867.38
667473.23	2630893.96
667504.09	2630923.97
667531.53	2630947.12
667556.40	2630973.70
667584.69	2631005.42
667613.84	2631035.43
667655.85	2631074.01
667691.87	2631105.74
667712.44	2631122.03
667737.31	2631147.75
667760.46	2631168.33
667785.32	2631188.05
667806.76	2631212.91
667827.34	2631231.77
667850.49	2631248.92
667868.49	2631269.50
667892.50	2631290.93
667920.79	2631312.37
667955.09	2631345.81
667982.53	2631380.96
668000.53	2631398.97
668024.54	2631421.26
668047.69	2631446.12
668075.12	2631473.56
668103.42	2631501.86
668123.14	2631520.72
668145.43	2631542.15
668160.87	2631559.30
668178.87	2631575.59
668205.45	2631599.60
668229.46	2631619.32
668251.75	2631637.33
668278.33	2631661.33
668303.19	2631686.20
668331.49	2631708.49
668346.92	2631726.50
668368.36	2631748.79
668382.08	2631765.08
668399.22	2631777.94
668415.51	2631794.23
668431.80	2631812.24

SURFSIDE TO SPRINGMAID BASELINE

668451.53	2631828.53
668464.39	2631846.53
668484.11	2631864.54
668508.11	2631887.69
668529.55	2631909.12
668550.98	2631926.27
668566.42	2631946.85
668589.57	2631965.71
668609.29	2631981.14
668627.29	2632006.01
668647.01	2632024.02
668673.59	2632041.16
668699.31	2632071.17
668746.47	2632103.75
668773.05	2632136.33
668789.34	2632148.34
668816.78	2632166.34
668839.07	2632187.78
668857.93	2632202.35
668895.66	2632242.65
668936.82	2632278.66
668965.97	2632294.95
669023.41	2632360.12
669062.00	2632390.98
669105.72	2632427.85
669152.88	2632463.01
669195.75	2632494.73
669239.48	2632541.89
669274.63	2632575.33
669301.21	2632595.90
669333.79	2632629.34
669374.09	2632662.78
669404.96	2632696.22
669441.83	2632733.95
669473.55	2632765.67
669510.42	2632796.54
669534.43	2632825.69
669574.72	2632866.84
669600.45	2632893.42
669631.31	2632926.86
669648.46	2632944.87
669675.90	2632974.88
669695.62	2632994.60
669717.05	2633012.60
669743.63	2633041.75
669765.07	2633059.76
669799.36	2633087.20
669820.80	2633112.92
669841.38	2633134.35
669865.38	2633154.93
669891.11	2633179.80
669974.24	2633235.39
670025.72	2633269.82
670049.73	2633292.97
670079.73	2633322.98
670105.46	2633349.56
670133.75	2633378.71

SURFSIDE TO SPRINGMAID BASELINE

670162.90	2633404.43
670192.91	2633430.16
670217.78	2633449.88
670255.50	2633473.88
670276.94	2633495.32
670304.37	2633518.47
670338.67	2633543.33
670375.54	2633572.49
670408.98	2633599.07
670449.28	2633625.65
670477.57	2633640.22
670499.01	2633651.37
670523.01	2633672.80
670547.88	2633688.24
670573.60	2633696.81
670652.48	2633780.84
670690.21	2633816.85
670727.07	2633846.00
670755.37	2633872.58
670799.10	2633906.02
670826.53	2633926.59
670882.26	2633966.03
670912.27	2633991.76
670933.71	2634004.62
670960.29	2634031.20
670984.30	2634053.49
671007.45	2634080.07
671045.17	2634111.79
671073.47	2634132.37
671096.62	2634156.38
671124.05	2634181.24
671150.63	2634209.54
671180.64	2634230.11
671208.08	2634254.12
671238.94	2634278.99
671280.96	2634316.71
671313.54	2634345.01
671334.97	2634366.44
671380.42	2634403.31
671435.63	2634457.32

END

SURFSIDE TO SPRINGMAID SETBACK LINE

DHEC-OCRM SETBACK LINE COORDINATES  
SURFSIDE BEACH TO SPRINGMAID  
VALID AS OF APRIL 15, 2000  
STATE-PLANE COORDINATE SYSTEM, NAD 1983  
INTERNATIONAL FEET

NORTHING	EASTING
646461.33	2614129.03
646541.33	2614189.23
646621.26	2614249.31
646701.20	2614309.40
646781.13	2614369.48
646861.07	2614429.57
646941.00	2614489.65
647020.94	2614549.74
647100.88	2614609.82
647180.81	2614669.91
647260.75	2614730.00
647340.68	2614790.08
647420.62	2614850.17
647500.55	2614910.25
647580.49	2614970.34
647660.43	2615030.42
647740.36	2615090.51
647820.30	2615150.60
647900.23	2615210.68
647980.17	2615270.77
648013.14	2615295.55
648093.13	2615355.56
648173.12	2615415.58
648253.11	2615475.59
648333.10	2615535.60
648413.09	2615595.62
648493.08	2615655.63
648573.07	2615715.64
648653.06	2615775.65
648687.47	2615801.47
648747.46	2615846.48
648827.45	2615906.49
648907.44	2615966.51
648987.43	2616026.52
649067.42	2616086.53
649147.41	2616146.55
649227.40	2616206.56
649307.39	2616266.57
649387.38	2616326.59
649405.02	2616339.82
649483.54	2616401.75
649562.05	2616463.68
649640.57	2616525.60
649719.09	2616587.53
649797.60	2616649.46
649876.12	2616711.39
649954.64	2616773.32
650033.16	2616835.25
650111.67	2616897.17
650190.19	2616959.10

SURFSIDE TO SPRINGMAID SETBACK LINE

650268.71	2617021.03
650347.22	2617082.96
650425.74	2617144.89
650504.26	2617206.81
650582.77	2617268.74
650661.29	2617330.67
650739.81	2617392.60
650818.32	2617454.53
650896.84	2617516.45
650975.36	2617578.38
651053.88	2617640.31
651132.39	2617702.24
651210.91	2617764.17
651289.43	2617826.10
651367.94	2617888.02
651388.44	2617904.19
651468.68	2617963.87
651548.92	2618023.54
651629.17	2618083.22
651709.41	2618142.89
651789.65	2618202.57
651869.89	2618262.25
651950.13	2618321.92
652030.37	2618381.60
652110.62	2618441.28
652190.86	2618500.95
652271.10	2618560.63
652351.34	2618620.30
652431.58	2618679.98
652511.83	2618739.66
652592.07	2618799.33
652672.31	2618859.01
652752.55	2618918.69
652832.79	2618978.36
652913.03	2619038.04
652993.28	2619097.71
653073.52	2619157.39
653138.65	2619205.83
653218.03	2619266.64
653297.42	2619327.46
653376.80	2619388.27
653456.18	2619449.09
653535.57	2619509.90
653614.95	2619570.71
653694.33	2619631.53
653773.72	2619692.34
653853.10	2619753.15
653932.48	2619813.97
654011.86	2619874.78
654091.25	2619935.60
654170.63	2619996.41
654250.01	2620057.22
654329.40	2620118.04
654408.78	2620178.85
654488.16	2620239.66
654567.55	2620300.48
654646.93	2620361.29

SURFSIDE TO SPRINGMAID SETBACK LINE

654726.31	2620422.11
654805.70	2620482.92
654885.08	2620543.73
654891.38	2620548.56
654972.50	2620607.04
655053.62	2620665.51
655134.74	2620723.99
655215.86	2620782.47
655296.98	2620840.94
655378.10	2620899.42
655459.22	2620957.90
655540.34	2621016.38
655621.46	2621074.85
655702.58	2621133.33
655783.70	2621191.81
655864.82	2621250.28
655945.94	2621308.76
656027.06	2621367.24
656108.18	2621425.71
656189.30	2621484.19
656270.42	2621542.67
656351.54	2621601.15
656432.66	2621659.62
656499.20	2621707.59
656579.60	2621767.05
656660.01	2621826.51
656740.41	2621885.97
656820.81	2621945.43
656901.22	2622004.88
656981.62	2622064.34
657062.02	2622123.80
657142.42	2622183.26
657222.83	2622242.72
657303.23	2622302.18
657383.63	2622361.64
657464.04	2622421.10
657544.44	2622480.55
657624.84	2622540.01
657705.25	2622599.47
657785.65	2622658.93
657866.05	2622718.39
657946.45	2622777.85
658026.86	2622837.31
658107.26	2622896.77
658187.66	2622956.23
658197.23	2622963.30
658276.77	2623023.91
658356.31	2623084.51
658435.85	2623145.12
658515.39	2623205.73
658594.93	2623266.34
658674.48	2623326.94
658754.02	2623387.55
658833.56	2623448.16
658913.10	2623508.77
658992.64	2623569.37
659072.18	2623629.98

SURFSIDE TO SPRINGMAID SETBACK LINE

659151.72	2623690.59
659231.26	2623751.20
659310.80	2623811.80
659390.34	2623872.41
659469.88	2623933.02
659549.42	2623993.63
659628.97	2624054.23
659708.51	2624114.84
659788.05	2624175.45
659867.59	2624236.05
659947.13	2624296.66
660026.67	2624357.27
660090.44	2624405.86
660112.34	2624422.29
660129.59	2624434.83
660151.01	2624451.29
660166.35	2624463.40
660180.54	2624474.43
660208.71	2624496.97
660229.37	2624514.43
660257.30	2624535.57
660282.03	2624552.57
660284.92	2624554.97
660300.26	2624568.56
660309.72	2624575.50
660332.50	2624589.93
660334.81	2624591.77
660359.18	2624611.63
660386.14	2624633.83
660411.81	2624656.45
660438.62	2624673.12
660470.55	2624694.39
660473.02	2624696.41
660507.55	2624725.87
660532.28	2624745.19
660569.12	2624777.06
660599.93	2624802.60
660622.18	2624817.44
660650.69	2624839.75
660653.86	2624842.57
660681.99	2624871.48
660714.48	2624900.88
660737.03	2624924.11
660775.93	2624956.15
660802.45	2624978.65
660825.86	2624998.28
660862.77	2625024.42
660885.11	2625040.38
660909.91	2625059.36
660912.29	2625061.46
660936.06	2625083.64
660956.63	2625097.83
661008.79	2625132.60
661010.96	2625134.38
661042.18	2625160.42
661070.98	2625185.22
661171.71	2625270.88

SURFSIDE TO SPRINGMAID SETBACK LINE

661173.85	2625272.85
661176.70	2625276.07
661202.90	2625309.41
661221.10	2625335.87
661255.17	2625359.04
661259.17	2625362.35
661288.90	2625390.43
661316.07	2625407.59
661318.35	2625409.42
661351.51	2625436.46
661384.44	2625466.05
661413.68	2625493.69
661442.22	2625517.61
661465.81	2625538.80
661486.60	2625554.40
661525.36	2625582.88
661555.16	2625606.84
661582.90	2625629.03
661612.85	2625655.75
661638.72	2625673.49
661666.98	2625697.10
661691.89	2625718.12
661720.75	2625740.74
661743.72	2625760.49
661771.64	2625780.11
661797.59	2625800.15
661824.92	2625821.85
661847.93	2625840.10
661888.96	2625872.61
661910.08	2625886.95
661937.81	2625907.89
661964.93	2625928.63
661996.42	2625953.65
662024.17	2625976.63
662049.74	2625996.01
662078.68	2626018.51
662097.32	2626034.02
662118.08	2626048.10
662121.26	2626050.73
662147.61	2626074.46
662168.48	2626091.60
662205.10	2626118.88
662227.78	2626137.31
662247.55	2626154.14
662276.75	2626171.66
662279.96	2626174.17
662310.30	2626199.86
662335.15	2626222.36
662365.56	2626245.18
662387.85	2626263.44
662411.99	2626280.04
662416.22	2626283.55
662437.68	2626304.15
662465.64	2626324.02
662496.00	2626349.18
662524.95	2626371.87
662548.11	2626391.68

SURFSIDE TO SPRINGMAID SETBACK LINE

662569.95	2626409.62
662586.52	2626423.03
662610.74	2626443.34
662655.08	2626476.01
662677.21	2626493.99
662718.57	2626524.42
662743.76	2626546.00
662767.51	2626567.95
662780.87	2626577.96
662803.12	2626595.60
662817.09	2626606.62
662829.99	2626616.66
662846.70	2626629.01
662857.59	2626637.81
662875.81	2626648.22
662881.67	2626652.69
662897.72	2626667.67
662917.90	2626683.14
662935.15	2626695.36
662937.24	2626697.12
662953.51	2626711.09
662973.36	2626724.78
662976.22	2626727.16
662998.35	2626746.86
663014.32	2626759.36
663033.49	2626774.11
663050.17	2626788.34
663065.36	2626800.63
663083.56	2626815.80
663095.76	2626826.54
663108.58	2626835.99
663128.92	2626852.98
663150.88	2626871.40
663173.53	2626887.68
663195.49	2626905.86
663215.86	2626917.68
663220.20	2626921.02
663236.45	2626935.25
663254.60	2626949.22
663274.79	2626967.54
663290.76	2626983.46
663293.58	2626986.64
663310.46	2627008.07
663338.02	2627030.72
663361.50	2627043.12
663370.15	2627049.50
663372.90	2627052.58
663388.07	2627071.71
663406.87	2627088.56
663429.41	2627107.47
663460.82	2627135.78
663493.19	2627168.77
663519.00	2627185.98
663523.07	2627189.32
663563.06	2627226.84
663579.13	2627242.90
663598.69	2627257.74

SURFSIDE TO SPRINGMAID SETBACK LINE

663626.23	2627279.90
663648.28	2627300.25
663675.32	2627323.03
663702.28	2627344.15
663727.20	2627366.55
663747.18	2627385.78
663774.25	2627405.92
663797.24	2627422.97
663801.24	2627426.43
663803.19	2627428.54
663818.77	2627446.82
663839.65	2627465.80
663862.74	2627481.42
663866.34	2627484.40
663887.04	2627503.41
663906.63	2627519.50
663930.02	2627537.78
663955.48	2627557.99
663982.49	2627581.11
664003.99	2627601.17
664023.87	2627613.36
664028.01	2627616.62
664052.76	2627638.83
664070.07	2627650.81
664073.33	2627653.53
664093.29	2627671.77
664111.69	2627691.66
664128.30	2627709.65
664148.55	2627727.81
664172.58	2627753.15
664207.50	2627780.39
664235.99	2627805.61
664264.00	2627837.00
664292.07	2627857.72
664295.36	2627860.56
664333.82	2627897.47
664370.41	2627926.89
664398.06	2627950.67
664429.53	2627978.39
664460.41	2628006.99
664481.43	2628025.84
664513.06	2628053.05
664534.25	2628072.79
664554.06	2628086.00
664556.10	2628087.67
664579.40	2628106.85
664602.91	2628127.41
664627.19	2628145.98
664630.09	2628148.51
664648.76	2628166.45
664675.01	2628183.95
664680.49	2628188.44
664699.29	2628207.96
664718.28	2628224.83
664749.60	2628254.59
664752.51	2628257.71
664774.02	2628283.68

SURFSIDE TO SPRINGMAID SETBACK LINE

664776.65	2628287.28
664796.80	2628318.84
664823.53	2628345.58
664850.61	2628366.41
664873.70	2628384.29
664900.39	2628405.91
664924.86	2628421.99
664952.88	2628442.18
664978.04	2628460.55
665002.06	2628472.56
665034.17	2628491.70
665037.06	2628493.96
665060.90	2628513.65
665090.94	2628533.21
665119.82	2628552.96
665124.94	2628557.21
665152.85	2628585.85
665184.11	2628614.92
665212.20	2628643.71
665263.48	2628691.33
665280.93	2628708.02
665304.18	2628732.00
665332.12	2628762.94
665348.26	2628779.77
665364.01	2628794.80
665367.04	2628798.09
665387.99	2628823.76
665410.74	2628843.17
665447.32	2628876.67
665468.50	2628897.80
665495.18	2628921.60
665496.61	2628923.61
665519.94	2628949.87
665544.85	2628972.01
665574.21	2629001.28
665600.45	2629023.26
665628.76	2629049.91
665650.01	2629072.58
665676.23	2629095.96
665705.22	2629123.41
665726.99	2629144.42
665729.99	2629147.70
665743.73	2629164.71
665762.31	2629181.31
665784.68	2629201.43
665806.99	2629222.94
665834.05	2629248.54
665857.27	2629269.65
665886.62	2629292.56
665889.93	2629295.49
665911.45	2629317.00
665938.90	2629344.46
665970.48	2629379.06
665997.74	2629409.99
666024.17	2629437.14
666044.54	2629456.78
666068.34	2629479.84

SURFSIDE TO SPRINGMAID SETBACK LINE

666100.41	2629514.08
666120.75	2629532.31
666147.32	2629557.35
666169.51	2629578.06
666190.33	2629598.85
666207.23	2629613.64
666229.62	2629638.22
666244.85	2629657.00
666267.54	2629678.31
666294.24	2629708.04
666313.94	2629730.55
666330.28	2629745.53
666354.60	2629772.05
666381.05	2629799.93
666403.26	2629820.72
666421.41	2629840.23
666443.44	2629858.82
666445.68	2629860.88
666448.90	2629864.58
666463.93	2629884.39
666483.22	2629904.36
666501.58	2629924.18
666520.11	2629942.00
666539.88	2629964.07
666558.51	2629986.55
666574.50	2630008.25
666588.95	2630022.70
666615.15	2630039.08
666620.17	2630043.07
666669.90	2630090.31
666675.23	2630096.73
666693.18	2630124.34
666714.45	2630148.95
666732.83	2630167.32
666753.30	2630189.85
666827.98	2630246.38
666859.15	2630263.70
666892.20	2630283.65
666895.10	2630285.92
666916.12	2630303.30
666918.32	2630305.33
666920.38	2630307.57
666938.84	2630329.44
666967.23	2630355.07
666996.71	2630380.86
667000.72	2630384.98
667021.77	2630410.38
667040.33	2630431.01
667065.98	2630455.23
667095.42	2630483.93
667125.90	2630510.78
667145.25	2630527.90
667149.34	2630532.16
667167.62	2630554.66
667194.37	2630582.19
667239.97	2630626.95
667261.86	2630647.15

SURFSIDE TO SPRINGMAID SETBACK LINE

667302.32	2630685.03
667328.03	2630709.02
667358.44	2630740.26
667380.39	2630764.81
667408.59	2630793.81
667438.16	2630818.58
667464.82	2630838.58
667497.10	2630867.01
667528.28	2630897.27
667554.75	2630919.60
667556.99	2630921.66
667582.69	2630949.10
667611.05	2630980.89
667638.95	2631009.61
667679.93	2631047.24
667714.95	2631078.10
667734.79	2631093.80
667737.90	2631096.57
667762.24	2631121.75
667783.62	2631140.75
667807.69	2631159.84
667810.78	2631162.59
667832.64	2631187.80
667850.27	2631203.97
667871.91	2631219.99
667875.94	2631223.47
667894.12	2631244.12
667915.39	2631263.12
667942.53	2631283.67
667945.75	2631286.48
667980.22	2631320.03
667983.47	2631323.66
668009.54	2631357.07
668025.52	2631373.04
668049.03	2631394.88
668073.60	2631421.12
668100.58	2631448.11
668128.59	2631476.12
668148.02	2631494.70
668170.38	2631516.20
668186.39	2631533.85
668203.01	2631548.89
668228.95	2631572.32
668252.19	2631591.41
668274.37	2631609.32
668302.46	2631634.62
668327.15	2631659.24
668353.77	2631680.21
668356.94	2631683.03
668373.59	2631702.29
668394.31	2631723.84
668406.96	2631738.75
668420.82	2631749.14
668424.68	2631752.48
668440.97	2631768.78
668456.75	2631786.15
668474.45	2631800.77

SURFSIDE TO SPRINGMAID SETBACK LINE

668476.98	2631803.07
668480.82	2631807.60
668491.47	2631822.51
668508.38	2631837.95
668533.10	2631861.77
668553.59	2631882.26
668573.47	2631898.16
668576.44	2631900.82
668579.78	2631904.67
668592.57	2631921.72
668612.03	2631937.58
668631.47	2631952.79
668634.74	2631955.69
668638.45	2631960.03
668654.29	2631981.91
668669.06	2631995.40
668693.11	2632010.91
668699.05	2632015.71
668723.61	2632044.20
668766.94	2632074.14
668771.93	2632078.30
668774.37	2632081.00
668798.07	2632110.05
668809.91	2632118.78
668836.53	2632136.25
668841.20	2632140.05
668862.62	2632160.48
668879.95	2632173.87
668883.39	2632176.90
668920.72	2632216.74
668957.68	2632249.08
668983.53	2632263.53
668991.42	2632269.50
669048.35	2632333.96
669084.49	2632362.87
669128.10	2632399.63
669174.35	2632434.11
669217.17	2632465.79
669221.21	2632469.27
669265.11	2632516.58
669298.12	2632547.98
669323.25	2632567.44
669326.67	2632570.45
669358.25	2632602.85
669397.08	2632635.08
669399.55	2632637.32
669431.06	2632671.42
669467.43	2632708.64
669497.88	2632739.09
669533.53	2632768.93
669535.87	2632771.08
669538.21	2632773.65
669561.23	2632801.61
669600.45	2632841.66
669626.32	2632868.39
669657.58	2632902.24
669674.53	2632920.04

SURFSIDE TO SPRINGMAID SETBACK LINE

669701.92	2632949.99
669719.97	2632968.04
669740.21	2632985.04
669742.51	2632987.15
669768.62	2633015.73
669787.89	2633031.92
669821.85	2633059.08
669824.82	2633061.74
669827.02	2633064.15
669847.64	2633088.90
669866.13	2633108.16
669888.81	2633127.60
669913.80	2633151.67
669996.92	2633207.26
670045.73	2633239.90
670050.25	2633243.61
670074.71	2633267.06
670105.19	2633297.53
670131.31	2633324.51
670158.61	2633352.64
670186.53	2633377.27
670215.82	2633402.38
670238.68	2633420.51
670274.83	2633443.51
670280.96	2633448.43
670301.32	2633468.79
670326.58	2633490.10
670359.80	2633514.19
670397.87	2633544.25
670430.13	2633569.89
670467.48	2633594.53
670494.06	2633608.22
670515.61	2633619.43
670519.99	2633622.63
670522.98	2633624.51
670544.66	2633643.86
670563.27	2633655.42
670584.98	2633662.66
670595.37	2633669.08
670599.06	2633671.35
670678.05	2633755.48
670713.85	2633789.65
670749.40	2633817.76
670751.46	2633819.59
670778.69	2633845.09
670820.83	2633877.32
670847.74	2633897.50
670903.06	2633936.65
670933.40	2633962.45
670952.23	2633973.75
670959.16	2633979.16
670985.27	2634005.27
671008.79	2634027.11
671032.76	2634054.32
671067.37	2634083.42
671094.64	2634103.26
671098.92	2634106.91

SURFSIDE TO SPRINGMAID SETBACK LINE

671121.69	2634130.52
671148.23	2634154.57
671174.20	2634182.05
671201.00	2634200.42
671203.47	2634202.48
671231.23	2634226.55
671303.79	2634295.36
671376.36	2634364.17
671448.92	2634432.97

END

## **Appendix 2**

### **Monument Descriptions**

This appendix contains descriptions of all OCRM beach survey monuments in the area.

DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. :SCCC 5100 1987  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°07'05".1 SCALE FACTOR : 0.9997945  
NORTHING : 546,542.15 FEET LAT : 33°35'38"03693  
EASTING : 2,614,010.77 FEET LONG : 78°58'59".52744  
ELEVATION (NGVD 29) 10.56 FEET

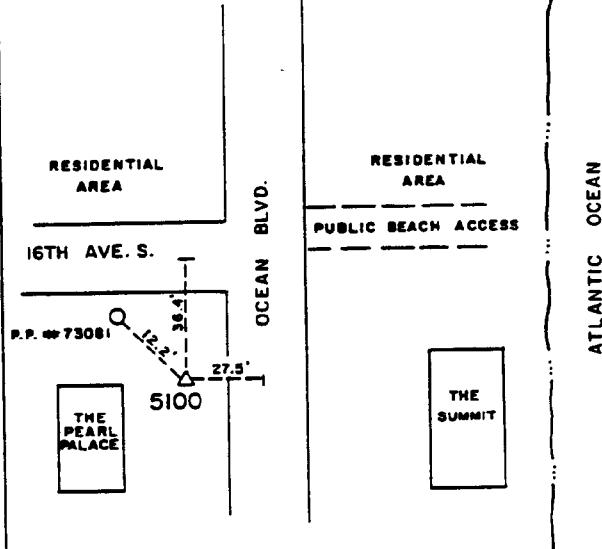
OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5035	215°06'25":70	S 33°59'21":W	1174.89 FEET
5120	036°46'49":92	N 35°39'45":E	1943.53 FEET

DESCRIPTION :

LOCATED IN SURFSIDE BEACH, TO REACH FROM THE JUNCTION OF U.S. HWY. 17 BUSINESS & SURFSIDE DRIVE, GO EAST ON SURFSIDE DRIVE FOR 1.1 MI TO OCEAN BOULEVARD SOUTH, TURN RIGHT ON OCEAN BOULEVARD FOR 1.0 MI TO THE JUNCTION OF SIXTEENTH AVE. SOUTH & THE STATION ON THE RIGHT IN THE WEST ANGLE OF THE JUNCTION.

A STANDARD BRASS CAP SET ON TOP OF A 2-FT LONG 2-IN PVC PIPE INSIDE A 6-IN PVC PIPE SURROUNDED BY CONCRETE.

SKETCH :



DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

PROJECT : SCCC SURVEY MONUMENTATION

STATION NO. : SCCC 5120 1987

STATE : SOUTH CAROLINA COUNTY : HORRY

NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°07'12.8" SCALE FACTOR : 0.9997944

NORTHING : 548.120.88 FEET LAT : 33°35'53.43655

EASTING : 2,615,143.63 FEET LONG : 78°58'45.87036

ELEVATION (NGVD 29) 10.01 FEET

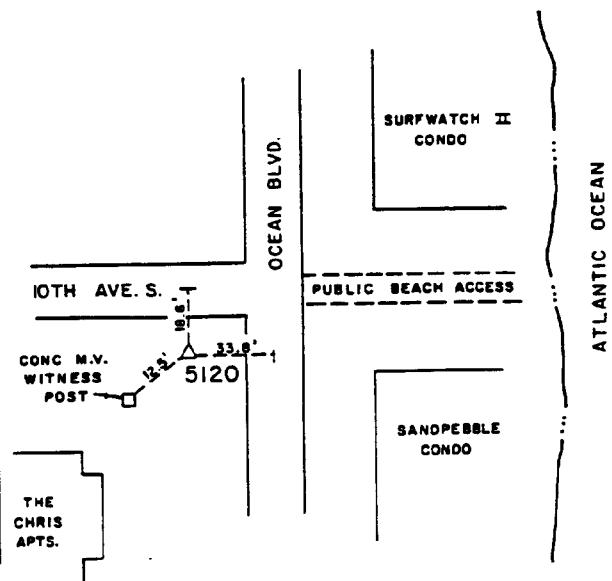
OBJECT	GEODETTIC AZIMUTH	GRID BEARING	GRID DISTANCE
5100	216°46'57.55	S 35°39'45"W	1943.53 FEET
5140	036°26'44.11	N 35°19'31"E	1743.23 FEET

DESCRIPTION :

LOCATED IN SURFSIDE BEACH. TO REACH FROM THE INTERSECTION OF U.S. HWY. 17 BUSINESS & SURFSIDE DRIVE. GO SOUTHEAST ON SURFSIDE DRIVE FOR 1.1 MI TO OCEAN BOULEVARD SOUTH. TURN RIGHT ON OCEAN BOULEVARD SOUTH FOR 0.60 MI TO THE JUNCTION OF TENTH AVE SOUTH & THE STATION ON THE RIGHT IN THE WEST ANGLE OF THE JUNCTION.

A STANDARD BRASS CAP SET ON TOP OF A 2-FT LONG PVC PIPE INSIDE A 6-IN PVC PIPE SURROUNDED BY CONCRETE

SKETCH :



DATE : JULY 1991

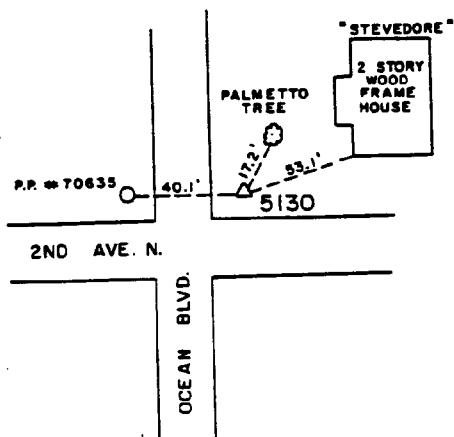
SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5130 1987  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°07'30.1" SCALE FACTOR : 0.9997942  
NORTHING : 651.519.32 FEET LAT : 33°36'26.55773"  
EASTING : 2.617.722.55 FEET LONG : 78°58'14.59330"  
ELEVATION (NGVD 29) 8.11 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5140	219°36'26.12	S 38°28'56"W	2525.38 FEET
5180 B	040°09'06.04	N 39°01'36"E	2194.83 FEET

DESCRIPTION :  
LOCATED IN SURFSIDE BEACH, TO REACH FROM  
INTERSECTION OF U.S. HWY. 17 BUSINESS &  
SURFSIDE DRIVE, GO SOUTHEAST ON SURFSIDE  
DRIVE FOR 1.1 MI TO OCEAN BOULEVARD SOUTH.  
TURN LEFT ON OCEAN BOULEVARD SOUTH FOR  
0.2 MI TO THE JUNCTION OF SECOND AVE.  
NORTH & THE STATION ON THE RIGHT IN THE  
EAST ANGLE OF THE JUNCTION.  
A STANDARD BRASS CAP SET ON TOP OF A 2-FT  
LONG 2-IN PVC PIPE INSIDE A 6-IN PVC PIPE  
SURROUNDED BY CONCRETE.

SKETCH :



ATLANTIC OCEAN

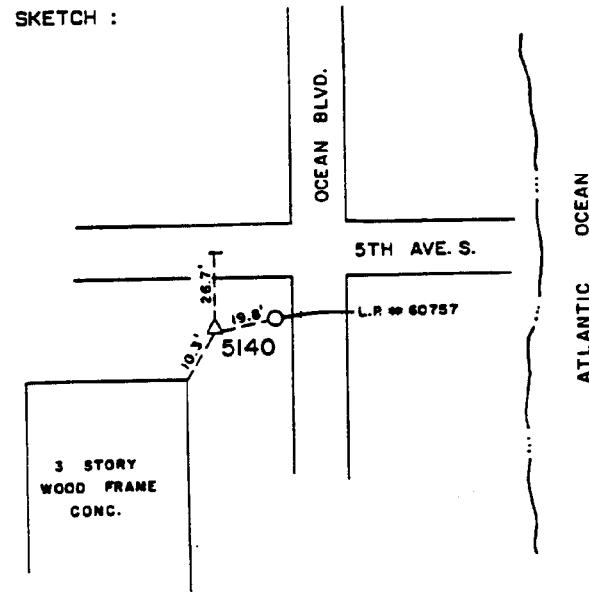
DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5140 1987  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°07'19".6 SCALE FACTOR : 0.9997943  
NORTHING : 649,542.86 FEET LAT : 33°36'07".30921  
EASTING : 2,616,151.39 FEET LONG : 78°58'33".62726  
ELEVATION (NGVD 29) 7.90 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5120	216°26'50".90	S 35°19'31"W	1743.23 FEET
5130	039°36'15".57	N 38°28'56"E	2525.38 FEET

DESCRIPTION :  
LOCATED IN SURFSIDE BEACH, TO REACH FROM  
THE INTERSECTION OF U.S. HWY. 17 BUSINESS  
& SURFSIDE DRIVE, GO SOUTHEAST ON  
SURFSIDE DRIVE FOR 1.1 MI TO OCEAN  
BOULEVARD SOUTH, TURN RIGHT ON OCEAN  
BOULEVARD SOUTH FOR 0.30 MI TO THE  
JUNCTION OF FIFTH AVE. SOUTH & THE  
STATION ON THE RIGHT IN THE WEST ANGLE OF  
THE JUNCYION.  
A STANDARD BRASS CAP SET ON TOP OF A  
2-FT LONG 2-IN PVC PIPE INSIDE A 6-IN PVC  
PIPE SURROUNDED BY CONCRETE.



DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

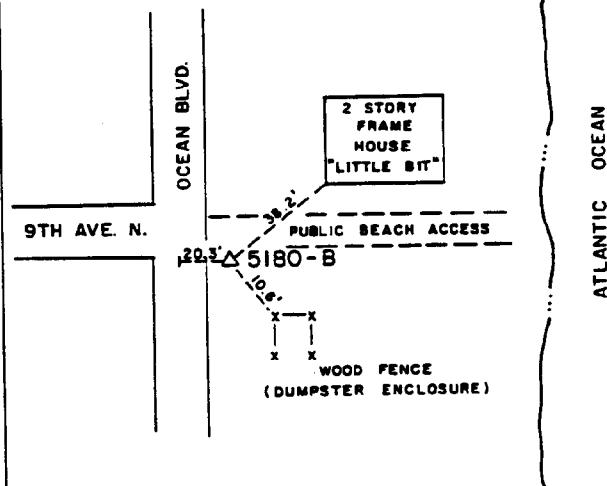
PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5180 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°07'39".4 SCALE FACTOR : 0.9997942  
NORTHING : 653.224.03 FEET LAT : 33°36'43".15377  
EASTING : 2.619.104.30 FEET LONG : 78°57'57".85963  
ELEVATION (NGVD '29) 7.88 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5130	220°09'15".32	S 39°01'36"W	2194.83 FEET
5195 B	039°10'28".12	N 38°02'49"E	2203.66 FEET

DESCRIPTION : LOCATED IN SURFSIDE BEACH, TO REACH FROM THE INTERSECTION OF U.S. HWY. 17 BUSINESS & SURFSIDE DRIVE, GO SOUTHEAST ON SURFSIDE DRIVE FOR 1.1 MI TO JUNCTION OF OCEAN BOULEVARD, TURN LEFT ON OCEAN BOULEVARD FOR 0.59 MI TO THE STATION ON THE RIGHT BY THE MAIL BOX FOR HOUSE NO. 911.

A STANDARD BRASS CAP SET ON TOP OF A PREFABRICATED ALUMMINUM PIPE, EMBEDDED IN CONCRETE, SURROUNDED BY A 4-IN PVC PIPE. NOTE--ACCESS TO DATUM POINT IS HAD THROUGH A 5-IN LOGO CAP.

SKETCH :



DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5195 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°07'48.5" SCALE FACTOR : 0.9997941  
NORTHING : 654.959.07 FEET LAT : 33°37'00.05395  
EASTING : 2.620462.16 FEET LONG : 78°57'41.39980  
ELEVATION (NGVD 29) 10.93 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5180 B	219°10'37.25	S 38°02'49"W	2203.66 FEET
5200 B	038°06'47.34	N 36°58'59"E	1979.10 FEET

DESCRIPTION :  
LOCATED IN SURFSIDE BEACH. TO REACH FROM  
THE INTERSECTION OF U.S. HWY. 17 BUSINESS  
& SUFSIDE DRIVE, GO SOUTHEAST ON SURFSIDE  
FOR 0.788 MI TO A T-JUNCTION OF OCEAN  
BOULEVARD. TURN LEFT ON OCEAN BOULEVARD  
FOR 1.0 MI TO 16TH AVE. NORTH ON THE LEFT.  
THE ENTRANCE TO THE HOLIDAY INN STRAIGHT  
AHEAD & THE STATION IN THE HOLIDAY INN  
PARKING LOT, ON THE SOUTHWEST SIDE OF A  
CURBED PLANTER AREA. JUST EAST OF THE  
HOLIDAY INN ENTRANCE & DIRECTLY SOUTHWEST  
OF THE MAIN ENTRANCE TO MOTEL OFFICE.

SKETCH :

STATION  
NOT  
RECOVERED

DATE : JANUARY 1992

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

PROJECT : SCCC SURVEY MONUMENTATION

STATION NO. : SCCC 5195 B 1990

STATE : SOUTH CAROLINA COUNTY : HORRY

NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1° 07' 48".5 SCALE FACTOR : 0.9997941

NORTHING : 654, 959.07 FEET LAT : 33° 37' 00".05395

EASTING : 2, 620, 462.16 FEET LONG : 78° 57' 41".39980

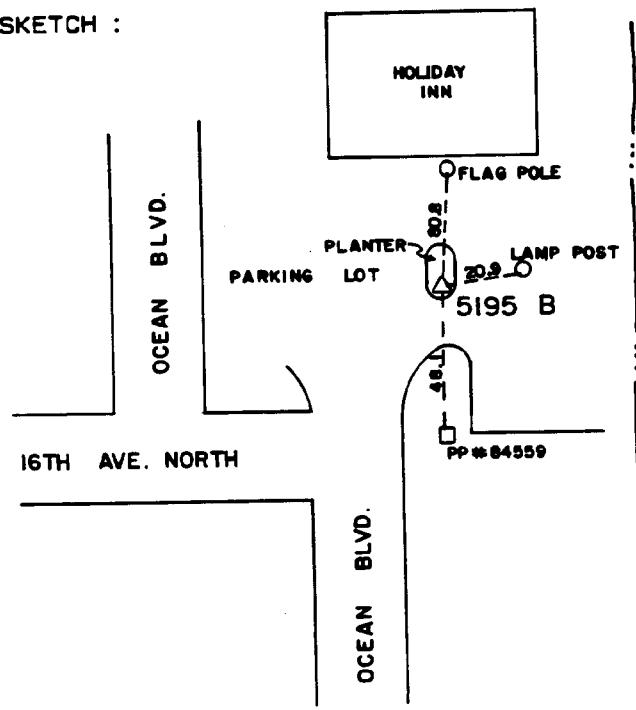
ELEVATION (NGVD 29) 10.93 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5180 B	219° 10' 37":25	S 38° 02' 49":W	2203.66 FEET
5200 B	038° 06' 47":34	N 36° 58' 59":E	1979.10 FEET

DESCRIPTION :

LOCATED IN SURFSIDE BEACH, TO REACH FROM THE INTERSECTION OF U.S. HWY. 17 BUSINESS & SURFSIDE DRIVE, GO SOUTHEAST ON SURFSIDE DRIVE FOR 0.78 MI TO A T-JUNCTION OF OCEAN BOULEVARD. TURN LEFT ON OCEAN BOULEVARD FOR 1.0 MI TO 16TH AVE. NORTH ON THE LEFT, THE ENTRANCE TO THE HOLIDAY INN STRAIGHT AHEAD & THE STATION IN THE HOLIDAY INN PARKING LOT. ON THE SOUTHWEST SIDE OF A CURBED PLANTER AREA, JUST EAST OF THE HOLIDAY INN ENTRANCE & DIRECTLY SOUTHWEST OF THE MAIN ENTRANCE TO MOTEL OFFICE. A STANDARD BRASS CAP FIXED ON A 2-IN PVC PIPE ENCASED IN 4-IN PVC PIPE SURROUNDED BY CONCRETE.

SKETCH :



DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

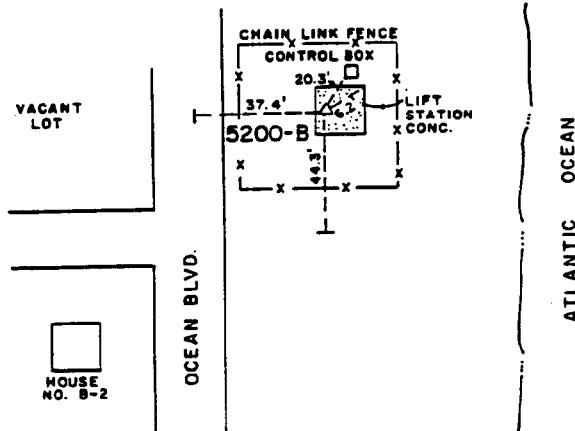
PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5200 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°07'56".5 SCALE FACTOR : 0.9997940  
NORTHING : 656 539.68 FEET LAT : 33°37'15".45842  
EASTING : 2 621 652.49 FEET LONG : 78°57'26".95515  
ELEVATION (NGVD 29) 8.95 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5195 B	218°06'55".35	S 36°58'59"W	1979.10 FEET
5210 B	038°07'18".25	N 36°59'22"E	2115.10 FEET

DESCRIPTION :

LOCATED AT OCEAN LAKES CAMPGROUND, TO REACH FROM THE JUNCTION OF U.S. HWY. 17 BUSINESS & ENTRANCE ROAD TO OCEAN LAKES CAMPGROUND. GO SOUTHEAST ON ENTRANCE ROAD FOR 0.05 MI TO THE GUARD HOUSE ON THE LEFT. CONTINUE ON OCEAN LAKES DRIVE FOR 0.40 MI THRU PERMANENT SECTION OF CAMPGROUND TO THE TEMPORARY SECTION. TURN RIGHT FOR 0.20 MI ON PERIWINKLE DRIVE. TURN LEFT FOR 0.05 MI TO A T-JUNCTION & THE STATION AHEAD ON THE LEFT. A STANDARD BRASS CAP SET IN A DRILL HOLE IN A SQUARE CONCRETE FOUNDATION FOR A SEWER LIFT STATION.

SKETCH :



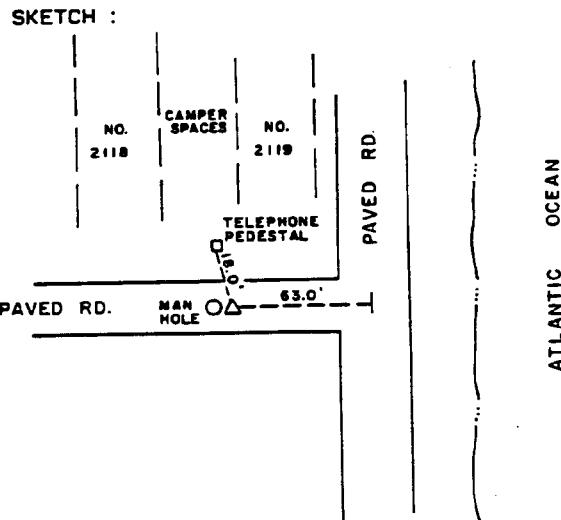
DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. :SCCC 5210 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°08'05".1 SCALE FACTOR : 0.9997939  
NORTHING : 658.228.76 FEET LAT : 33°37'31".91950  
EASTING : 2.522.924.82 FEET LONG : 78°57'11".51413  
ELEVATION (NGVD 29) 9.38 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5200 B	218°07'26".81	S 36° 59' 22" W	2115.10 FEET
5220	39 24 37.75	N 38° 16' 33" E	2161.29 FEET

DESCRIPTION : LOCATED AT OCEAN LAKES CAMPGROUND. TO REACH FROM THE JUNCTION OF U.S. 17 BUSINESS & ENTRANCE ROAD TO OCEAN LAKES CAMPGROUND. GO SOUTHEAST ON ENTRANCE ROAD FOR 0.05 MI TO THE GUARD HOUSE ON THE LEFT. CONTINUE ON OCEAN LAKES DRIVE FOR 0.40 MI THRU PERMANENT SECTION OF CAMPGROUND TO THE TEMPORARY SECTION. MAKE A SHORT JOG RIGHT THEN LEFT & CONTINUE SOUTHEAST FOR 0.09 MI TO A T-JUNCTION SAND ROAD ALONG BEACH. TURN LEFT FOR 0.20 MI TO THE STATION ON THE LEFT. A STANDARD BRASS CAP SET IN A DRILL HOLE IN THE TOP OF THE SOUTHEAST SIDE OF A CONCRETE FOUNDATION AROUND A 2.0-FT DIAMETER SEWER MANHOLE.



DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
SURFSIDE BEACH

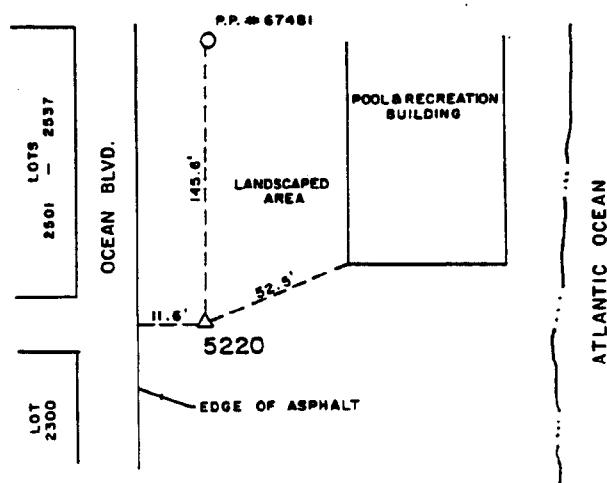
PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5220 1987  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°08'14".1 SCALE FACTOR : 0.9997939  
NORTHING : 659.925.11 FEET LAT : 33°37'48".43888  
EASTING : 2.624.263.34 FEET LONG : 78°56'55".28582  
ELEVATION (NGVD 29) 10.12 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5210 B	219°24'46".75	S 38°16'33"W	2161.29 FEET
5230 B	040°52'36".08	N 39°44'22"E	2425.59 FEET

DESCRIPTION :

LOCATED IN LAKWOOD CAMPGROUND. TO REACH FROM GUARD GATE, PASS THRU GUARD GATE & FOLLOW ROAD THRU CAMPGROUND FOR 0.35 MI TO ROAD RUNNING ALONG BEACH. TURN LEFT FOR 0.15 MI TO THE MARK ON THE RIGHT NEAR A PALM TREE.  
A STANDARD BRASS CAP SET ON TOP OF A 2-FT LONG 2-IN PVC PIPE INSIDE A 6-IN PVC PIPE SURROUNDED BY CONCRETE & FLUSH WITH THE GROUND.

SKETCH :



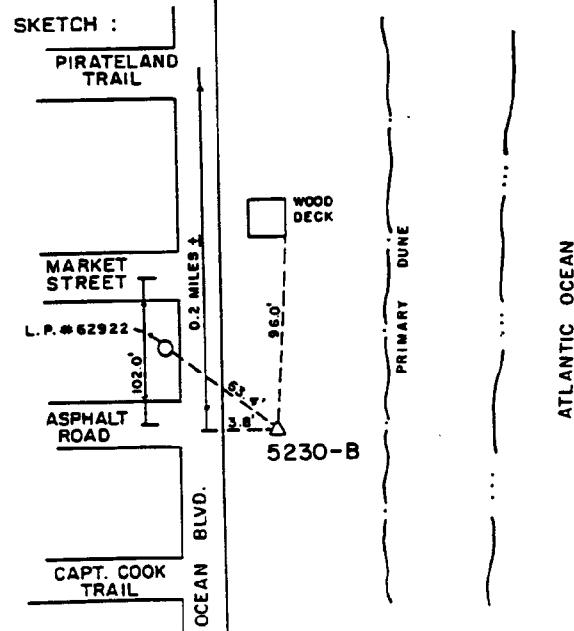
DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
MYRTLE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5230 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°08'24.5 SCALE FACTOR : 0.9997938  
NORTHING : 661.789.90 FEET LAT : 33°38'06.58242  
EASTING : 2.625.813.69 FEET LONG : 78°56'36.51289  
ELEVATION (NGVD 29) 9.55 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5220	220°52'46.48	S 39°44'22"W	2425.59 FEET
5240 B	035°52'41.83	N 34°44'17"E	2935.41 FEET

DESCRIPTION :  
LOCATED AT PIRATELAND CAMPGROUND, TO  
REACH FROM JUNCTION OF U.S. HWY. 17  
BUSINESS & ENTRANCE TO CAMPGROUND, FOLLOW  
ENTRANCE ROAD 0.50 MI TO JUNCTION ROAD  
ALONG BEACH, TURN RIGHT & GO 0.20 MI TO  
STATION ON THE LEFT ON THE EXTENDED  
CENTERLINE OF A ONE-WAY ROAD TO THE RIGHT  
A STANDARD BRASS CAP SET ON A STAINLESS  
STEEL ROD, ENCASED IN 4-IN PVC PIPE.



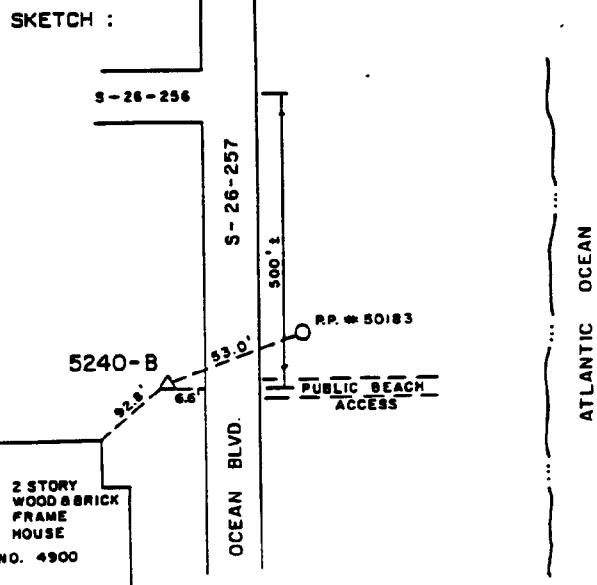
DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
MYRTLE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5240 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°08'35.8" SCALE FACTOR : 0.9997938  
NORTHING : 664.201.62 FEET LAT : 33°38'30.11163  
EASTING : 2.627.486.03 FEET LONG : 78°56'16.16491  
ELEVATION (NGVD 29) 7.26 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5230 B	215°52'53.11	S 34°44'17"W	2935.41 FEET
5250 B	047°20'20.77	N 46°11'45"E	1484.42 FEET

DESCRIPTION :  
LOCATED IN THE LONG BAY SUBDIVISION, TO  
FROM U.S. HWY. 17 BUSINESS & S-26-256  
(DOGWOOD DRIVE). FOLLOW DOGWOOD DRIVE  
INTO LONG BAY ESTATES & GO 0.45 MI TO A  
T-JUNCTION WITH S-26-257. TURN RIGHT ON  
S-26-257 FOR 0.10 MI TO THE MARK ON THE  
RIGHT.  
A STANDARD BRASS CAP SET ON TOP OF A  
PREFABRICATED ALUMINUM PIPE EMBEDDED IN  
CONCRETE. SURROUNDED BY A 4-IN PVC PIPE.



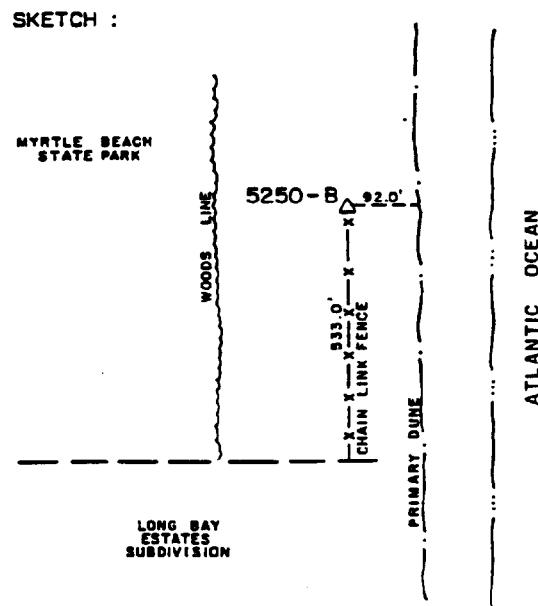
DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
MYRTLE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5250 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°08'42.9" SCALE FACTOR : 0.9997936  
NORTHING : 665.228.92 FEET LAT : 33°38'40"06318  
EASTING : 2.628.557.13 FEET LONG : 78°56'03"25312  
ELEVATION (NGVD 29) 9.75 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5240 B	227°20'27".93	S 46°11'45"W	1484.42 FEET
5260 B	047°44'35".56	N 46°35'53"E	2118.94 FEET

DESCRIPTION : LOCATED IN MYRTLE BEACH STATE PARK, TO REACH FROM THE JUNCTION OF U.S. HWY. 17 BUSINESS & ENTRANCE ROAD TO MYRTLE BEACH STATE PARK, FOLLOW ENTRANCE ROAD 0.70 MI TO A FORK, BEAR RIGHT, SOUTH-SOUTHWEST, ON THE ROAD FOR 0.15 MI TO A GATE & A PAVED ROAD RIGHT, TURN RIGHT PASSING THRU THE GATE & GO 0.35 MI TO THE END OF THE PAVED ROAD (A CULDESAC), CONTINUE SOUTHWEST ALONG BEACH FOR 0.10 MI TO THE STATION LOCATED BETWEEN THE DUNES & THE TREE LINE.  
A STANDARD BRASS CAP FIXED ON STAINLESS STEEL ROD ENCASED IN A PVC PIPE.



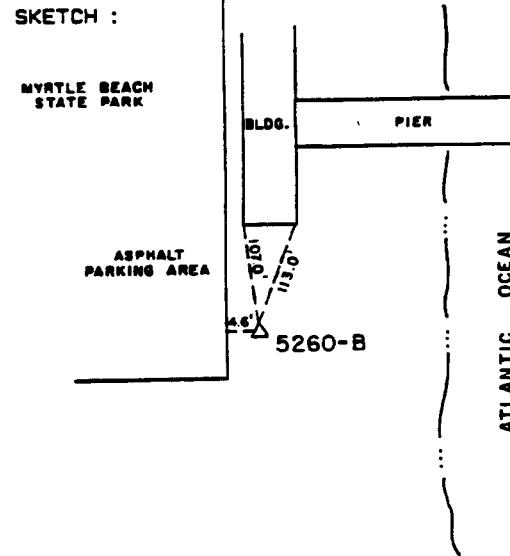
DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
MYRTLE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5260 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°08'53".2 SCALE FACTOR : 0.9997937  
NORTHING : 665.684.57 FEET LAT : 33°38'54".15906  
EASTING : 2.530.096.32 FEET LONG : 78°55'44".70199  
ELEVATION (NGVD 29) 9.46 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5250 B	227°44'45".85	S 46°35'53"W	2118.94 FEET
5270 B	039°41'12".20	N 38°32'19"E	1776.80 FEET

DESCRIPTION :  
LOCATED IN MYRTLE BEACH STATE PARK. TO REACH FROM JUNCTION OF U.S. HWY. 17 BUSINESS & ENTRANCE ROAD TO MYRTLE BEACH STATE PARK. FOLLOW ENTRANCE ROAD FOR 0.35 TO A STOP SIGN. TURN LEFT & GO .0.20 MI TO A GUARD GATE. CONTINUE AHEAD FOR 0.15 MI TO A FORK. TAKE RIGHT FORK FOR 0.10 MI TO A T-ROAD. TURN RIGHT ON PAVED ROAD FOR 0.10 MI TO THE MARK NEAR THE SOUTHWEST CORNER OF THE PARKING LOT.  
A STANDARD BRASS CAP FIXED ON STAINLESS STEEL ROD ENCASED IN 4-IN PVC PIPE.



DATE : JULY 1991

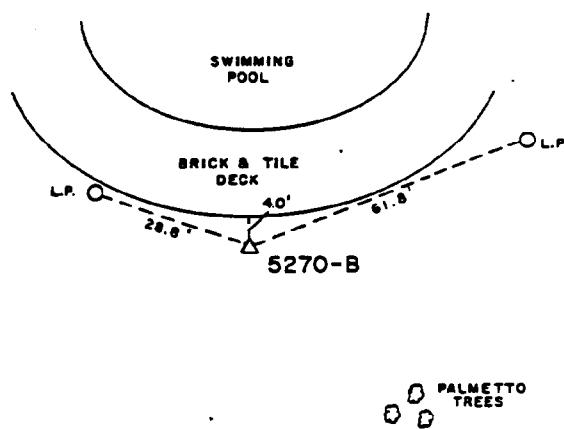
SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
MYRTLE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5270 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°09'00".7 SCALE FACTOR : 0.9997937  
NORTHING : 668.074.07 FEET LAT : 33°39'07".68571  
EASTING : 2.631.203.11 FEET LONG : 78°55'31".27996  
ELEVATION (NGVD 29) 17.97 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5260 B	219°41'19".64	S 38°32'19"W	1776.80 FEET
5280 B	047°45'02".33	N 46°36'02"E	2529.85 FEET

DESCRIPTION :  
LOCATED IN MYRTLE BEACH STATE PARK, TO REACH FROM THE JUNCTION OF U.S.HWY. 17 BUSINESS & THE ENTRANCE TO MYRTLE BEACH STATE PARK, FOLLOW ENTRANCE ROAD FOR 0.35 TO A STOP SIGN, TURN LEFT FOR 0.20 MI TO A GUARD GATE. CONTINUE AHEAD FOR 0.15 MI TO A FORK. BEAR LEFT, ON THE ROAD FOR 0.30 MI TO WOODEN GATE ON THE RIGHT AT A NO PETS ALLOWED SIGN & A BEACH ACCESS ROAD TO A SWIMMING POOL. TURN RIGHT & PASS THROUGH THE GATE TO THE SOUTHWEST SIDE OF A SANDY MOUND AROUND THE POOL AREA & THE STATION ON TOP OF THE MOUND ON THE SOUTHWEST SIDE OF THE CHAIN LINK FENCE AROUND POOL.  
A STANDARD BRASS CAP FIXED ON STAINLESS STEEL ROD ENCASED IN A 4-IN PVC PIPE.

SKETCH :



DATE : JULY 1991

SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
MYRTLE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5280 B 1990  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1°09'12".9 SCALE FACTOR : 0.9997937  
NORTHING : 669,811.93 FEET LAT : 33°39'24.151257  
EASTING : 2,533,040.87 FEET LONG : 078 55 09.12659  
ELEVATION (NGVD 29) 7.85 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5270 B	227°45'14".61	S 46°36'02"W	2529.85 FEET
5415	042°46'25".80	N 41°37'13"E	20839.89 FEET

DESCRIPTION : LOCATED IN SPRINGMAID BEACH, TO REACH FROM THE SOUTHWEST INTERSECTION OF U.S. HWY. 17 BUSINESS & S.C. HWY. 73 (OCEAN BOULEVARD). GO 0.55 MI ON OCEAN BOULEVARD TO THE JUNCTION OF STATE ROAD S-26-28. TURN RIGHT ON S-26-28 FOR 0.25 MI TO A DRIVEWAY ON LEFT. GO LEFT THRU ENTRANCE WAY & BEAR LEFT PASSING BETWEEN BUILDINGS TOWARD ATLANTIC OCEAN. BEAR LEFT AGAIN FOLLOWING SIDEWALK FOR APPROXIMATELY 200.0 FT TO THE MARK ON LEFT BETWEEN TWO CONCRETE PADS FOR SHUFFLEBOARD BEHIND BUILDING-M. A STANDARD BRASS CAP SET ON TOP OF A PREFABRICATED ALUMINUM PIPE, EMBEDDED IN CONCRETE, SURROUNDED BY A 4-IN PVC PIPE, & FLUSH WITH THE GROUND.

SKETCH :

STATION  
NOT  
RECOVERED

DATE : JANUARY 1992

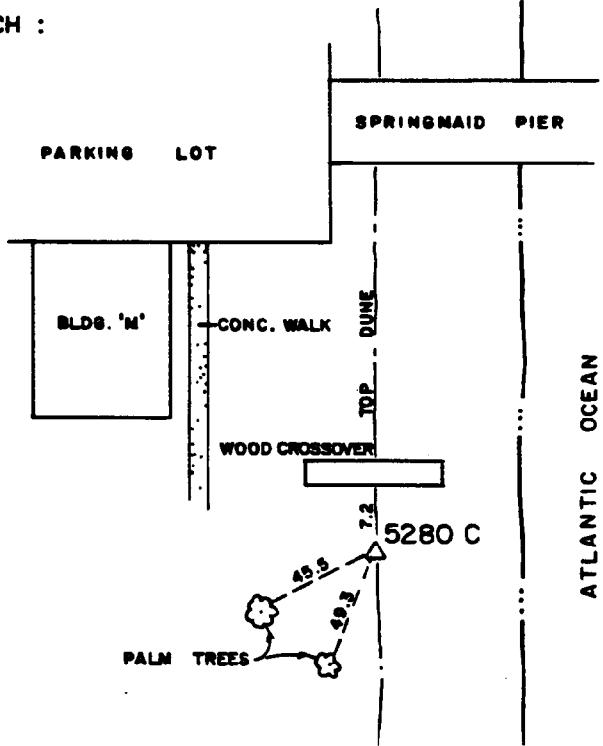
SOUTH CAROLINA COASTAL COUNCIL  
CONTROL SURVEYS  
MYRTLE BEACH

PROJECT : SCCC SURVEY MONUMENTATION STATION NO. : SCCC 5280 C 1991  
STATE : SOUTH CAROLINA COUNTY : HORRY  
NAD 83 - SINGLE ZONE SPC - CONVERGANCE : 1° 09' 13".2 SCALE FACTOR : 0.9997937  
NORTHING : 669.783.71 FEET LAT : 33° 39' 24".22599  
EASTING : 2.633.078.21 FEET LONG : 78° 55' 08".69154  
ELEVATION (NGVD 29) 12.10 FEET

OBJECT	GEODETIC AZIMUTH	GRID BEARING	GRID DISTANCE
5270 B	228° 47' 47".20	S 47° 38' 34"W	2538.01 FEET
5300	31° 38' 41".74	N 30° 29' 29"E	2215.35 FEET

DESCRIPTION :  
LOCATED IN SPRINGMAID BEACH, TO REACH  
FROM THE INTERSECTION OF HWY. 73 (OCEAN  
BOULEVARD) & S-26-28 FOLLOW S-26-28 SOUTH  
FOR 0.25 MI TO DRIVEWAY ON LEFT (ENTRANCE  
TO SPRINGMAID PIER). GO LEFT THRU  
ENTRANCE-WAY & BEAR LEFT PASSING BETWEEN  
BUILDINGS TOWARD ATLANTIC OCEAN. BEAR  
LEFT & FOLLOW SIDEWALK FOR 200-FT TO THE  
MARK ON LEFT ON TOP DUNE BEHIND BUILDING  
M.  
A STANDARD BRASS CAP SET ON TOP OF A 2-IN  
PVC PIPE ENCASED IN 4-IN PVC PIPE  
SURROUNDED BY CONCRETE.

SKETCH :



### **Appendix 3**

### **Long Term Shoreline Change Rates**

The long-term erosion rate for all stations from Surfside Beach to Springmaid, stations 5100 to 5280, is -0.9 feet per year.